

us-09-126-945-1.rng

**Coding sequence of**

core sequence;

	PT	Novel EIA-F gene - for production of adenovirus EIA-F and cancer research.
	PS	Claim 1: Page 6; 7pp; Japanese.
	PC	The adenovirus EIA-F gene contains a 47bp open reading frame. The amino acid sequence of the protein encoded by this sequence was isolated by screening a HeLa cell cDNA library.
	CC	Sequence 2073 BP; 458 A; 639 C; 561 G; 418 T;
	Df	
Oy	Query Match	1.1%; Score 20; DB 1; Length 2073;
	Best Local Similarity	100.0%; Pred. No. 8.1;
Matches	20; Conservative	0; Mismatches 0; Indels 0; Gaps 0;
Lj19	tatgacaaagctggccgcctc 138       tatttttttttttttttttttc 149	
Dd	1030 taccacacactcacgccctc 1049	
	RESULT 2	
ID	T47198	
AC	T47198 standard; CDNA; 2667 bp.	
DT	T47198:	
DE	06-APR-1997 (first entry)	
DR	Human ETS2 repressor factor (ERF) cDNA.	
KM	ETS2 repressor factor; ERF; transcriptional repressor.	
OS	Humour suppressor; tumour; cancer; oncogene; gene therapy; ss.	
FH	RNase seplems.	
FT	Key	Location/Qualifiers
FT	cds	123..11769
FT	/tag= a	
FT	2644..2649	
PN	Polye.Signal	/tag= b
PD	M06639517-AI.	
PD	12-DEC-1996.	
PR	04-JUN-1996; U10177.	
PR	05-JUN-1995; US-469412.	
PA	(US&S ) US DEPT HEALTH & HUMAN SERVICES	
P5	Shoures D N.A., Biall GS, Fisher RJ, Mayrothalasalts CJ;	
PI	SMP: 97-043139/04.	
DP	P-PDB: M07700.	
DR	New DNA encoding ETS2 repressor factor - useful for reducing tumorigenicity; esp. oncogene associated tumour cells	
PT	Claia 3; Page 63-65; 10pp; Engl1sh.	
CC	A cDNA clone (T47198) codes for human ETS2 repressor factor (ERF) (M07700). It was isolated from a K562 cDNA library using the HI	

CC site of the ETS2 promoter as probe. A related clone (747199)  
 CC coding for an alternatively spliced ERF (W07701.1) is the first  
 CC The ERF gene, which maps to chromosome 19, q12-13 is the first  
 CC member of the ets family to be identified as a transcriptional  
 CC repressor in mammalian cells. It can be used to suppress or repress  
 CC transcription and to elucidate transcription process and regulation.  
 CC The ERF gene also has tumour suppressor activity and can be used to  
 CC suppress tumour tumorigenicity associated with v-mos, c-met,  
 CC tyrosine kinase and other oncogenes. The cDNA can be cloned  
 CC for expression of the ERF polypeptides in host cells.  
 SQ Sequence 2667 BP; 456 A; 875 C; 825 G; 510 T;

Query Match 1.1%; Score 20; DB 1; Length 2667;  
 Best Local Similarity 100.0%; Pred. No. 8;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1272 aggtcgccgcgtctggcgc 1291  
 DB 307 AGCTGCCCCGCGCTGTGGGCG 326

RESULT 3  
 ID 737087 standard: cDNA to mRNA, 2064 BP.  
 AC 737087;  
 DT 25-APR-1997 (first entry)  
 DE E1AF matrix metalloproteinase regulator, cDNA.  
 KW E1AF matrix metalloproteinase; regulator; infiltration; cancer;  
 KW target DNA; ribonuclease; antisense; decoy; DNA binding region;  
 KW mammary cancer; fibrosarcoma; osteosarcoma; lung cancer; ds.  
 KW Homo sapiens.  
 FH Key Location/Qualifiers  
 FT cds 1..1389  
 FT key /\*tag= a  
 FT W06634370-A1.  
 PD 15-AUG-1996;  
 PR 08-JAN-1995; J00016.  
 PA (TAKI ) TAKARA SHUZO CO LTD.  
 PI Fujiwara K, Higashino F, Yoshida K.  
 DR WPI: 95-384227/38.  
 P-PSDB: W00167.  
 DT Control of cancer cell infiltration by E1AF gene expression  
 DT expression product diagnosis of cancer by detection of E1AF gene  
 PT  
 PS Example 5; Pages 38-42; 65pp; Japanese.  
 CC The present sequence encodes the E1AF protein, which is a matrix  
 CC metalloproteinase regulator. The infiltration and metastasis of  
 CC cancer cells can be controlled by regulating the expression and  
 CC expression products of the E1AF gene. This may be accomplished by  
 CC inducing antisense DNA or RNA for the E1AF gene, a decoy gene  
 CC DNA for the DNA binding region of the E1AF protein, the target  
 CC corresponding to the E1AF gene mRNA, cDNA or protein, or  
 CC detecting E1AF gene expression products e.g. E1AF protein by RNA.  
 CC These methods may be used in the treatment and diagnosis of cancer.  
 CC e.g. mammary cancer, fibrosarcoma, osteosarcoma, lung cancer, etc.  
 SQ Sequence 2064 BP; 427 A; 648 C; 569 G; 420 T;

Query Match 1.1%; Score 20; DB 1; Length 2064;  
 Best Local Similarity 100.0%; Pred. No. 8.1;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1319 taccgaacacgcgcgcgc 1338  
 DB 1108 TACGACACAGCTGAGCCGCTC 1127

RESULT 4  
 X24412;

ID X24412 standard: cDNA; 1070 BP.  
 AC X24412;  
 DT 15-JUN-1999 (first entry)  
 DE Myo-inositol monophosphatase-3 cDNA.  
 KW Myo-inositol monophosphatase; 3' UTR; corn; phytate;  
 KW phytic acid; transgenic plant; animal nutrition; feedstuff; food;  
 KW ss.  
 OS ss.  
 FH Key Location/Qualifiers  
 FT cds 57..860  
 FT key /\*tag= a  
 FT W0905298-A1.  
 PD 04-FEB-1999;  
 PR 17-JUL-1998; U14657.  
 PR 18-MAY-1998; US-085852.  
 PR 22-JUL-1997; US-053371.  
 PR 28-JUL-1997; US-053944.  
 PR 18-AUG-1997; US-055526.  
 PR 13-SEP-1997; US-059242.  
 PA (PLOW-) PIONEER H2385D INT INC.  
 PI Beach LR, Bowen BA, Martino-catt SJ, Wang H, Wang X;  
 DR WPI: 99-142948/12.  
 P-PSDB: W97883.  
 DT New polynucleotides controlling phytate metabolism in plants -  
 DT useful for improving the nutritional content of plants, by enhancing  
 DT levels of non-phytate phosphorus, and reducing phytate levels  
 PS This is the nucleotide sequence of a cDNA clone encoding maize  
 CC myo-inositol monophosphatase-3 (see W97883) an enzyme from a maize  
 CC in the metabolism of phytate. The clone was isolated from a maize  
 CC immature ear cDNA library. Polynucleotides (see X24400, X24403,  
 CC X24407 and X24410-12) encoding maize phosphatidylinositol-3-kinase  
 CC (W984W97880), myo-inositol 1,3,4-trisphosphate 5/6-kinase (see  
 CC W984W97880), and myo-inositol 1-phosphate synthase and myo-inositol  
 CC monophosphatase-3, all of which are involved in phytate metabolism, are  
 CC claimed. The invention relates to the use of these genes in the  
 CC the levels of phytate, and/or increase the levels of non-phytate  
 CC phosphorus, in plants used for food or feed. The genes are  
 CC especially used to improve the nutritional content of plants such  
 CC as corn and soybean. Transgenic plants, and seed produced by them,  
 CC are claimed.  
 SQ Sequence 1070 BP; 285 A; 240 C; 292 G; 253 T;

Query Match 1.1%; Score 20; DB 1; Length 1070;  
 Best Local Similarity 100.0%; Pred. No. 8.5;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 970 catgtcgagcagcttcc 989  
 DB 56 CATGTCCAGACAGCTGCTC 75  
 RESULT 5  
 ID NS0114 standard: DNA; 2721 BP.  
 AC NS0114;  
 DT 12-OCT-1991 (first entry)  
 DE DNA encoding Epstein-Barr virus (EBV) outer surface protein.  
 DE Epstein-Barr virus; antigen; vaccine; ss.  
 KW Epstein-Barr virus  
 FH Key Location/Qualifiers  
 FT met\_peptide 1..2721  
 FT key /\*tag= a  
 FT /label= EBV surface protein antigen  
 FT EP-151079-A.  
 PD 28-JUL-1985; 400141  
 PR 30-JAN-1984; US-573352.  
 PR 23-JUL-1984; US-633556.  
 PA (UYCH-) UNIV OF CHICAGO.  
 PI Kieff E, Tanner J, Hummel M, Belsel C;  
 DR WPI: 95-191978/32.

DR P-PSDB: P50073.  
 PT New fragment of Epstein-Barr Virus DNA - useful in vector to  
 PT express polypeptide for use in prepn. of vaccine against the  
 PT virus and for use in diagnosis.  
 PT Title: Page 2, 23; 26pp. English.  
 CC The gene encoding the surface protein of EBV, used  
 CC to generate antibodies reacting with the surface proteins of  
 CC EBV-infected cells, and in the preparation of a vaccine against EBV.  
 SQ Sequence 2721 BP: 762 A; 876 C; 557 G; 526 T.

Query Match 1.0%; Score 19; DB 1; Length 2721;  
 Best Local Similarity 100.0%; Pred. No. 22;

Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 206 CCAAGCCCGCCGATGGCCAA 224

DB 2277 CCAAGCCCGCCGATGGCCAA 2295

RESULT 6

ID 053160/c. cDNA; 1503 BP.

AC 253100-1994 (first entry)

DE Sequence encoding retinal pigmented epithelium-derived neurotrophic

factor (PEDNF).

KM Serine protease inhibitor gene family; neurotrophic activity;

KM Tumour therapy; ss.

OS Homo sapiens.

PH Key Location/Qualifiers

FT cds

FT 117.1373

FT 117.1373

FT 117.1373

FT 117.1373

FT 117.1373

FT 117.1373

FT 117.1373

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FT 117.1373

FT 117.1373

FT signal\_peptide 1014.1067  
 FT /tag- b  
 FT 1068.3734  
 FT mat\_peptide 1068.3734  
 FT /tag- b  
 FT 1068.3734  
 FT misc-feature 2515-2515  
 FT /tag- d  
 FT 2515-2515  
 FT /function- splice donor site  
 FT /note- "bases 2513-2517 (AAGT) are replaced by  
 FT GTCA in the non-splicing variant"  
 FT 3105.3106  
 FT misc-feature 3105.3106  
 FT /tag- e  
 FT /function- splice acceptor site  
 FT /note- "bases 3106-3110 (AAGT) are replaced by  
 FT 3106-3110 in the non-splicing variant"  
 FT 3742.3747  
 FT poly\_a\_signal 3742.3747  
 FT /tag- f

Query Match 1.0%; Score 19; DB 1; Length 5931;  
 Best Local Similarity 100.0%; Pred. No. 21;

Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 206 CCAAGCCCGCCGATGGCCAA 224

DB 3290 CCAAGCCCGCCGATGGCCAA 3308

RESULT 8

ID 722147/c. cDNA to mRNA; 346 BP.

AC 722147.

DE Human gene (first entry)

KM Human gene (first entry)

KM Human gene (first entry)

KM Human gene (first entry)

KM Human gene (first entry)

KM Human gene (first entry)

KM Human gene (first entry)

KM Human gene (first entry)

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KM Human gene (first entry)

KM Human gene (first entry)

KM Human gene (first entry)

KM Human gene (first entry)

KM Human gene (first entry)

CC human genomic DNA. cDNA or mRNA is claimed. The GS (Gene Signature)  
 CC sequences were obtained from 3'-directed cDNA libraries prepared from  
 CC various human tissues; synthesis of cDNA was initiated from the  
 CC 3' end of mRNA by using poly(1) as the sole primer. Since the 3'-  
 CC oriented cDNA was unique to a particular mRNA species, almost  
 CC all the 3'-oriented cDNAs hybridized to a specific mRNA. Each library  
 CC is constructed so as to reflect accurately the relative abundance of  
 CC different mRNAs in the particular tissue from which it was derived.  
 CC The appearance frequency of a given GS in a cDNA library can be  
 CC determined (esp. using primers and probes derived from the GS  
 CC sequences) as a means of diagnosing abnormal cell function or for  
 CC recognizing different cell types.  
 CC Sequence 346 BP; 56 A; 100 C; 75 G; 67 T.

Query Match 1.0%; Score 19; DB 1; Length 346;  
 Best Local Similarity 100.0%; Pred. No. 25;  
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Oy 128 gacagccctggcctggcgggt 146  
 Db 99 GCAGCCTGCGCTGGCGGT 81

RESULT 9  
 11158/c  
 ID 11158 standard; DNA; 22481 BP.  
 DT 11158; 1997 (first entry)  
 DE PEDF full length sequence and flanking sequences.  
 KW Pigment epithelium-derived factor; PEDF; central nervous system; CNS;  
 KW glial cells; glastatic; gliosis; e.g. in CNS cell  
 KW neurodegenerative disease; injury; neurotrophic; brain cells;  
 KW Parkinson's disease; photoreceptor cells; retina; inhibition;  
 KW proliferation; immunosay; antibody; ageing; degenerative disease;  
 US: US patents.  
 OS Mo9533480-A1.  
 PN 14-DEC-1995.  
 PF 06-JUN-1995; U07201.  
 PR 07-JUN-1994; US-257963.  
 PR 30-DEC-1994; US-367841.  
 PA (USFS ) US DEPT HEALTH & HUMAN SERVICES.  
 PI Becerra SF, Chader GJ, Schwartz JP, Tanikawa T;  
 P-PSDB: 902897/04.  
 DR Use of pigment epithelium derived factor - for enhancing neuronal  
 PT cell survival and inhibiting glial cell proliferation and e.g.  
 PT in CNS cell culture or to treat neuro-degenerative diseases  
 PS Dislosure; Page 100-122; 15pp; English.  
 CC Pigment epithelium-derived factor (PEDF) has both neurotrophic and  
 CC glastatic activity, making it useful in cases where neurons die  
 CC naturally and also tend to proliferate (gliosis), e.g. in CNS cell  
 CC culture and in glial diseases and in CNS injury. The  
 CC neurotrophic effect of PEDF is demonstrated by its ability to enhance  
 CC survival of neuronal cell cultures intended for use for enhancing  
 CC transplantation. These include cultures of human fetal brain cells  
 CC and neural retina and photoreceptor cells. The glastatic activity  
 CC of PEDF can be applied to inhibiting glial cell proliferation and  
 CC certain tumours. Antibodies directed against PEDF can be used for  
 CC determining ageing and/or other degenerative disease samples e.g for  
 CC levels of PEDF in fluid samples.  
 CC Sequence 22481 BP; 5280 A; 5708 C; 6135 G; 5347 T;

Query Match 1.0%; Score 19; DB 1; Length 22481;  
 Best Local Similarity 100.0%; Pred. No. 19;  
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Oy 128 gacagccctggcctggcgggt 146  
 Db 22009 GCAGCCTGCGCTGGCGGT 21991

RESULT 10  
 743225  
 ID 743225 standard; DNA; 9048 BP.  
 DT 743225;  
 AC 26-FEB-1997 (first entry)  
 DE Brassica napus FCA gene.  
 KW Brassica napus; transgenic plant; oilseed rape; ss.  
 KW Brassica napus.  
 FH Keytrans. location/Qualifiers  
 FT cds  
 FT 2468..2470  
 FT /tag= a  
 FT /codon\_start= 2468..2470  
 FT /note= "translation start codon"  
 PN Mo9639560-A2.  
 PN 03-JUN-1996.  
 PF 03-JUN-1996; G01332  
 PR 02-JUN-1995; GB-011196  
 PA (INNE-) INNES CENT INNOVATIONS LTD JOHN.  
 PI Bancroft I, Dean C, Lister CK, Macnought RC;  
 DR WPI: 97-034373/03.  
 DR P-PSDB: M06449.  
 PT Methods of influencing flowering characteristics of plants - by  
 PT characterisation of FCA protein, DNA or antisense transcripts  
 CC (INNE-1996) (first entry)  
 CC The FCA gene (743225) encodes for a polypeptide  
 CC (M06449) able to influence flowering characteristics of plants.  
 CC flowering time. It was isolated from a genomic library of  
 CC a cDNA clone obtd. from the Arabidopsis FCA gene (743224). The  
 CC gene fully complements a mutation in the Arabidopsis FCA gene  
 CC and is thus a fully functional homologue. Timing of flowering of  
 CC autogenic plants can be delayed or hastened using FCA sense and  
 CC antisense constructs. Homologous genes in other plant species  
 CC can be used to isolate FCA homologous genes in other plant species.  
 CC Sequence 9048 BP; 2643 A; 1643 C; 1713 G; 5049 T;

Query Match 1.0%; Score 19; DB 1; Length 9048;  
 Best Local Similarity 100.0%; Pred. No. 20;  
 Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Oy 772 gacagccctggcctggcgggt 790  
 Db 7595 GCAGCCTGCGCTGGCGGT 7613

RESULT 11  
 135070  
 ID 135070 standard; cDNA; 818 BP.  
 DT 23-SEP-1998 (first entry)  
 DE Human Rab protein C (HRABC) cDNA.  
 KW Human Rab protein C; HRABC; HRAB; HRAB; HRAB; Rev. HIV-1.  
 KW Intracellular vesicular transport; choroideremia; AIDS; cancer;  
 KW Xeroderma pigmentosum; ss.  
 OS Homo sapiens.  
 PN 130707  
 FT /tag= a  
 FT /product= HRABC  
 PN Mo9818942-A2.  
 PD 07-MAY-1998.  
 PF 14-OCT-1997; U18581.  
 PR (INNC-1998) (first entry)  
 PR (INNC-1998) (first entry)  
 PI Au-Young J, Baumann O;  
 DR WPI: 98-272323/24.  
 DR P-PSDB: M42097.  
 PT New isolated human Rab protein(s) - used to develop products for the  
 PT diagnosis, prevention and treatment of choroideremia, AIDS and  
 PT claim 43; Fig 3A-3C; 88pp; English.

CC The present sequence represents the human Rab protein C (HRAB) cDNA  
 CC which was first identified in cDNA library TESTT02. The invention also claims  
 CC for other human Rab protein (HRAB) cDNAs and the HRAB proteins they  
 CC encode, namely HRAB (V3208, M4205), HRAB (V3209, M4206) and HRAB  
 CC (V3201, M4208). The Rab proteins are claimed to be involved in the  
 CC regulation of intracellular transport in B-cell, erythroid and  
 CC functional T-lymphocytes. The Rab proteins are also claimed for the  
 CC function of the viral gene, replication of the virus, for replication of  
 CC HIV-1 and as they also mediate cell cycle events, the present Rab  
 CC proteins are claimed to be useful in the diagnosis, prevention,  
 CC or treatment of cholesterolemia, AIDS and cancer.

CC Sequence 818 BP: 178 A: 224 C: 273 G: 142 T:

Query Match 1.0%: Score 19: DB 1: Length 818:  
 Best Local Similarity 100.0%: Pred. No. 24:  
 Matches 19: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

Db 127 ggcggccctggcctgggg 145  
 168 GCGAGCCCTGGCTGGGG 150

## RESULT 12

DB N80777 standard: cDNA: 3931 BP.

DE 15-OCT-1990 (first entry)

DE cDNA sequence for a murine 4kb clone encoding murine colony stimulating

DE factor-1 (mcsf-1)

KW Murine colony stimulating factor-1: 4kb clone: murine L-929.

OS Mouse

PH Key

FT Location/Qualifiers

FT cds

FT 160..155

FT /product=leader peptide

FT 256..1877

FT /tag= b

FT M08803173.A.

PD 05-MAY-1988.

PR 16-OCT-1987: U02679.

PR 16-APR-1987: US-039657.

PA (CDR1) cDNA sequence

PA Kohn, H. J. and Block, R. F. Kawasaki, ES, Lederer, MB:

DR WPI: 88-133247/19.

DR P-PSDB: P80360.

PT New forms of colony stimulating factor-1 -

PT used for enhancing effectiveness of immune system and for

PT stimulating prodn. of lymphokine(s)

PS Disclosure: Fig 4-1 to 4-2: 96p; English.

CC Total mRNA was extracted and purified from murine L-929 cells and used

CC for the synthesis of a cDNA library. Approximately 1.1 x 10<sup>6</sup> clones

CC per 100 microliters of phage were screened. A total of 11 phage

CC clones were identified which hybridized to probes were purified, and two

CC clones, one with a 2kb insert and the other with a 4kb insert, were

CC selected for further study. The nucleotide sequence for the clones are

CC given in n80777 and n80778. 4kb clone begins at nucleotide 24 relative

CC to the human CSF-17 shown in n80775. There is considerable sequence

CC homology with the human "long form" CSF-1-encoding sequence. After the

CC stop codon the nucleotide sequence diverges widely from the human 3'

CC untranslated sequence in pCCSF-17 and the long form clones. A

CC comparison of the nucleotide sequence of the murine CSF-1 cDNA with

CC which is free of DNA encoding other proteins normally found

CC with CSF-1 is claimed.

CC Sequence 3931 BP: 973 A: 1108 C: 1002 G: 848 T:

Query Match 1.0%: Score 18: DB 1: Length 3931:  
 Best Local Similarity 100.0%: Pred. No. 59:  
 Matches 18: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

Db 1740 gacaaagccacccggag 1757

Db 2938 GACAAAGCCACCCGGAG 2955

## RESULT 13

DB N82363213 standard: DNA: 773 BP.

DE 29-DEC-1990 (first entry)

DE Sequence encoding human granulocyte macrophage colony stimulating factor

DE (GM-CSF)

KW Lymphokine: Interleukin-3: cancer therapy: ss.

OS Homo sapiens.

PH Key

FT Location/Qualifiers

FT cds

FT 9..59

FT /tag= a

FT 138..146

FT /tag= b

FT 168..176

FT /tag= c

FT /note=Region R2\*

FT /tag= d

FT M08805786.A.

PD 11-AUG-1988.

PR 02-APR-1987: U00335.

PR 02-FEB-1987: US-011794.

PA (GENE-1) genetics inst.

PA Clark SC, Wong GG, Donahue RE:

DR WPI: 88-235149/33.

DR P-PSDB: P81886.

PT Colony stimulating factors having reduced carbohydrate levels -

PT obd. by replicating and/or deleting asparagine residues in GM-CSF

PT sequences: Table 1, Page 6, 32pp; English.

CC Proteins characterized by possessing GM-CSF-type biological activity

CC and having a specified peptide sequence, except that 1-6 AAs are replaced

CC and/or deleted within regions Asn-27 - Ser-29 and Asn-37 - Thr-39, such

CC that one or both of the regions are completely deleted or replaced by a

CC single AA residue, a dipeptide or a tripeptide sequence other than

CC Asn-X-Ser or Asn-X-Thr, where X is any AA except for pro is claimed. Also

CC claimed are cDNA encoding proteins. Variants are active CSFs which may

CC be produced in more homogeneous form and which may possess improved

CC stability and/or activity.

CC Sequence 773 BP: 210 A: 196 C: 188 G: 179 T:

Query Match 1.0%: Score 18: DB 1: Length 773:  
 Best Local Similarity 100.0%: Pred. No. 56:  
 Matches 18: Conservative 0: Mismatches 0: Indels 0: Gaps 0:

Db 82 CCGACGAGCCCTGGG 99

## RESULT 14

DB 041652 standard: DNA: 3635 BP.

DE 26-APR-1993 (first entry)

DE cDNA sequence encoding human granulocyte macrophage colony stimulating factor

DE (GM-CSF) genomic gene; Aspergillus oryzae; PCR; amplification; ss.

OS Aspergillus oryzae.

PH Key

FT Location/Qualifiers

FT Promoter

FT 1..1632

FT /tag= a

FT 1633..3018

FT /tag= b

FT 1639..1770

FT /tag= c

FT 2192..2251

FT Intron

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FT      //tag- d
FT      terminator      3019..3635
FT      //tag- e
PD      J05095787-A.
PD      20-APR-1993.
PD      04-OCT-1991..284117.
PD      04-OCT-1991..284117.
PA      (CHOKX) CHOKAN X.
PA      (J200.) JOZO SHIGEM KENKYUSHO KK.
DR      WPI: 93-163587/20.
DR      P-PSDB: R36566.
DR      Phospho:glycerate kinase (I) gene promoter - originating from
PF      genomic gene of phospho:glycerate kinase of Aspergillus oryzae
PF      Claim 1, Page 7-9; 24pp; Japanese.
CC      Aspergillus oryzae genomic library was prep'd. and primers (see
CC      045581) were used to amplify the sequences.
CC      sequence of purified PCR product was submitted for the application of the
CC      phosphoglycerate kinase gene, including the promoter, the coding and
CC      the terminator sequences.
SQ      Sequence 3635 BP: 844 A: 915 C: 874 G: 1002 T:

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Query Match
Best Local Similarity 10.0%; Score 18; DB 1; Length 3635.
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1523 tcgtctcgtcactctcca 1540
DB 1570 TCCTGCTCTGACTCTCCA 1587
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## RESULT 15

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ID Q78962 standard: DNA; 600 BP.
AC Q78962:
DT 03-AUG-1995 (first entry)
DE Human immunoglobulin Vh gene #24.
KW human; antibody; human; immunoglobulin; variable; heavy chain;
KW cosmid; plasmid; vector; pDB81; E.coli; mammalian; ds.
OS Homo sapiens.
FH Key location/Qualifiers
FT cds 68..591
FT //tag- a
FT //product= human immunoglobulin variable heavy chain
FT Intron 114..198
FT //tag- b
FT //cda= splice-5' site:No. 3' site:Yes
FT misc_signal 504..506
FT //tag- c
FT //note= "miscellaneous signal, does not conform to
FT terminator or splice site sequence"
PD M09426895-A.
PD 16-NOV-1993.
PD 10-MAY-1993.
PD 10-MAY-1993: MO-100603.
PA (NISH) JAPAN TOBACCO INC.
PI Honjo T, Matsuda F.
DR WPI: 95-006791/01.
DR P-PSDB: R56316.
PF DNA fragment comprising human immunoglobulin Vh genes - for the
PF production of human immunoglobulin in mammalian hosts
PF Claim 33, Page 61-62; 150pp; Japanese.
CC A series of genes (078939-79002) encoding human immunoglobulin variable
CC heavy chains were isolated and cloned from a series of cosmid
CC constructs: Y202; Y103; Y21; Y674; Y31. The genes were subcloned into 5
CC amplicon using primers 078917-18. The fragments cover a region of 800 kb. The DNA
CC fragments were isolated from high molecular weight DNA from human
CC placenta. The DNA was partially digested with TspI restriction enzyme.
CC The fragments were separated by gel electrophoresis and 35-45 kb fractions
CC were collected. The fragments were ligated with ClaI-digested cosmid
CC into E.coli 190A. The fragments were then subcloned by colony

```

CC hybridisation. The Vh genes and the DNA fragments encoding them are  
 CC useful in producing human immunoglobulin in mammalian hosts.  
 SQ Sequence 600 BP: 154 A: 163 C: 167 G: 116 T:

```

Query Match
Best Local Similarity 10.0%; Score 18; DB 1; Length 600.
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 776 cagtcgcagtcagtcagtc 793
DB 81 CAGGCGACAGTCAGTCAGTC 64
|||||

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Search completed: November 20, 1999, 21:43:54  
 Job time: 550 sec



CC site of the ETS2 promoter as probe. A related clone (747199)  
 CC coding for an alternatively spliced RRF (M07201) is the first  
 CC The ERF gene, which maps to chromosome 19, q12.1-3 is the first  
 CC member of the ets family to be identified as a transcriptional  
 CC repressor in mammalian cells. It can be used to suppress or repress  
 CC transcription and to elucidate transcription process and regulation  
 CC CC transgene also has tumour suppressor activity and can be used to  
 CC reduce the incidence of tumours associated with v-myc, c-myc,  
 CC lpr-met, Ha-ras and gag-myc-ets oncogenes. A cDNA can be cloned  
 CC for expression of the RRF polypeptide in host cells.  
 SQ Sequence 2657 BP; 456 A; 876 C; 825 G; 510 T;

Query Match 1.1%: Score 20; DB 1; Length 2667;  
 Best Local Similarity 100.0%; Pred. No. 6;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1272 agctgcgcgcgcctcgtgagc 1291  
 Db 307 AGGTGACCCGCTGTGGGC 326

RESULT 3  
 T37087  
 ID T37087 standard; cDNA to mRNA; 2064 BP.  
 AC T37087;  
 DT 25-APR-1997 (first entry)  
 DE E1AF matrix metalloproteinase regulator, cDNA.  
 E1AF matrix metalloproteinase; regulator; infiltration; cancer;  
 E1AF target DNA; ribonuclease; antitumor; diagnosis; detection; treatment;  
 E1AF target DNA; ribonuclease; antitumor; diagnosis; detection; treatment;  
 KW mammary cancer; fibrosarcoma; osteosarcoma; lung cancer; ds.  
 OS Homo sapiens.  
 FH Key Location/Qualifiers  
 FT cds 1..1389  
 FT key /\*tag- a  
 FT W09624379-A1.  
 PR 08-FEB-1995; 100016;  
 PR 08-FEB-1995; JP-020173.  
 PA (TAKI) TAKARA SHUZO CO LTD.  
 PI Fujiwaga K, Higashino F, Yoshida K.  
 DR P-PSDB: W00167.  
 DT Control of cancer cell infiltration by E1AF gene expression  
 DT regulation protein; also diagnosis of cancer by detection of E1AF gene  
 DT regulation protein; also diagnosis of cancer by detection of E1AF gene  
 PS Example 5; Pages 38-42; 65pp; Japanese.  
 CC The present sequence encodes the E1AF protein, which is a matrix  
 CC metalloproteinase regulator. The infiltration and metastasis of  
 CC cancer cells can be controlled by regulating the expression and  
 CC expression products of the E1AF gene. This may be accomplished by  
 CC inducing antisense DNA or RNA for the E1AF gene, a decoy gene  
 CC expressing the DNA binding region of the E1AF protein, the target  
 CC corresponding DNA binding region of the E1AF protein or ribosomes  
 CC detecting E1AF gene expression in the treatment and diagnosis of cancer.  
 CC These methods may be used in the treatment and diagnosis of cancer,  
 CC e.g. mammary cancer, fibrosarcoma, osteosarcoma, lung cancer, etc.  
 SQ Sequence 2064 BP; 427 A; 648 C; 569 G; 420 T;

Query Match 1.1%: Score 20; DB 1; Length 2064;  
 Best Local Similarity 100.0%; Pred. No. 8.1;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1319 taccagacagctgcgcgcgc 1338  
 Db 1108 TACGACAGCTGAGCGCCTC 1127

RESULT 4  
 X24412

ID X24412 standard; cDNA; 1070 BP.

AC X24412;  
 DT 07-JUN-1999 (first entry)  
 DE Myo-inositol monophosphatase-3 cDNA.  
 KW Myo-inositol  
 KW Phytic acid; transgenic plant; animal nutrition; feedstuff; food;  
 KW ss.  
 OS zea mays.

FH Key Location/Qualifiers  
 FT cds 571..860  
 FT key /\*tag- a  
 FT W09505298-A1.  
 PR 04-FEB-1999.  
 PR 17-JUL-1998; U14657.  
 PR 18-MAY-1998; US-085882.  
 PR 22-JUL-1997; US-053371.  
 PR 28-JUL-1997; US-083944.  
 PR 28-JUL-1997; US-082526.  
 PR 11-AUG-1997; US-052448.  
 PA (PROM-1) PROMER HT-BRED INT. INC.  
 PI Beach LR, Bowen BA, Martino-Catt SJ, Wang H, Wang X.  
 DR WPI: 99-142948/12.  
 P-PSDB: W97883.

FT New polynucleotides controlling phytic acid metabolism in plants -  
 FT useful for improving the nutritional content of plants, by enhancing  
 FT levels of non-phytic phosphorus, and reducing phytic acid levels  
 FT This is the sequence of the cDNA library.  
 CC This is the sequence of the cDNA library.  
 CC Myo-inositol monophosphatase-3 (see W97883). The clone was isolated from a maize  
 CC immature ear cDNA library. Polynucleotides (see X24400, X24403,  
 CC X24407 and X24410-12) encoding maize phosphatidylinositol-3-kinase  
 CC (see W97880), myo-inositol 1,3,4-triphosphate 5/6-kinase (see  
 CC W97881), myo-inositol 1-phosphate synthase and myo-inositol  
 CC 1-phosphatase (see W97882) are involved in phytic acid metabolism. are  
 CC claimed. The invention enzymes involved in phytic acid metabolism, are  
 CC the levels of phytate, and/or increase the use of such genes to reduce  
 CC phosphorus in plants used for food or feed. The genes for phytic  
 CC especially used to improve the nutritional content of plants such  
 CC as corn and soybean. Transgenic plants, and seed produced by them,  
 CC are claimed.  
 SQ Sequence 1070 BP; 285 A; 240 C; 292 G; 253 T;

Query Match 1.1%: Score 20; DB 1; Length 1070;  
 Best Local Similarity 100.0%; Pred. No. 8.5;  
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 970 catgcgcgcgcgcgcgcgc 989  
 Db 56 CATGCGCAGCAGCGCTCC 75

RESULT 5  
 ID N50114 standard; DNA; 2721 BP.  
 AC N50114;  
 DT 17-OCT-1991 (first entry)  
 DE DNA sequence encoding Epstein-Barr virus (EBV) outer surface protein.  
 KW Epstein-Barr virus; antigen; vaccine; ss.  
 OS Epstein-Barr virus.  
 FH Key Location/Qualifiers  
 FT met\_peptide 1..2721  
 FT key /\*tag- a  
 FT label- EBV surface protein antigen

PN EP-151079-A.  
 PD 07-AUG-1985.  
 PR 26-JAN-1985; 450141.  
 PR 26-JAN-1985; US-411152.  
 PR 23-JUL-1984; US-623556.  
 PA (UYCH-) UNIV OF CHICAGO.  
 PI Kieff E, Tanner J, Hummel M, Belset C.  
 DR WPI: 95-191978/32.

















transplantation. These include cultures of human foetal brain cells and neural retina and photoreceptor cells. The glialastatic activity of PDFP can be applied to inhibiting glial cell proliferation in certain tumours. Antibodies directed against PDFP can be used for inhibiting PDFP activity or in an immunoassay for determining levels of PDFP in fluid, cellular or tissue samples e.g. for diagnosis of brain tumours and/or other degenerative diseases.

Sequence 22461 BP: 3280 A: 5708 C: 636 G: 5347 T:

Query Match 1.0%: Score 19; DB 1; Length 22481;

Best Local Similarity 100.0%: Pred. No. 19;

Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

0y 126 ggcgcctggcgtgggggt 146  
db 22009 GCACCCCTGGCCTGGCCT 21991

RESULT 10

143225 standard: DNA: 9048 BP.

NC 143225: 1997 (first entry)

DE Brassica napus: FCS gene

KW FCA: flowering: transgenic plant: oilseed rape; ss.

OS Brassica napus: Location/Qualifiers

FT cds 2468..2470

FT /\*tag= a

FT /codon\_start= 2468..2470

FT /note= "translation start codon"

PN MO9638560-42.

PD 05-DEC-1996.

PR 03-JUN-1996: G01332.

PA (INNE-) INNES CENT INNOVATIONS LTD JOHN.

PI Bencroft I, Dean C, Lister CK, MacKnight NC;

PT 14-07-1997: G01332/03.

PS Methods of influencing flowering characteristics of plants - by

PS Claim 20: Fig 8a: 97pp: English.

CC The FCA gene (F13225) of Brassica napus codes for a polypeptide

CC (M06449) able to influence flowering characteristics, partic-

CC flowering time. It was isolated from a genomic library using

CC a cDNA clone obtained from the Arabidopsis FCA gene (F13224). The

CC gene has a fully functional promoter and encodes a protein of

CC transgenic plants can be delayed or hastened using FCA coding

CC antisense constructs, mutants and alleles. FCA genes can also be

CC used to isolate FCA homologues from other plant species.

Sequence 9048 BP: 2643 A: 1643 C: 1713 G: 3049 T:

Query Match 1.0%: Score 19; DB 1; Length 9048;

Best Local Similarity 100.0%: Pred. No. 20;

Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

0y 772 ggaagcagcagcagcagcag 790

db 7595 GGCAGCGTGCAGCTCCATG 7613

RESULT 11

V32010/C

ID V32010 standard: CDNA: 818 BP.

AC V32010:

DE 23-SEP-1998 (first entry)

DE Human Rab protein C (HRAB): CDNA.

KW Human Rab protein C; HRAB: HRAB: HRAB: Rev: HIV-1;

CC Intracellular vesicular transport; Chorioideremia; AIDS; cancer;

CC Oncocytosis; endocytosis; ss.

OS Homo sapiens. Location/Qualifiers

FT CDS

FT /\*tag= a

FT /product= HRAB

PN MO9818942-42.

PD 07-MAY-1998.

PR 14-OCT-1997: U16581.

PA 29-OCT-1996: US-74141.

PI (INCE-) INCTE PHARM INC.

PT New isolated human Rab protein(s) - used to develop products for the

PT diagnosis, prevention and treatment of Chorioideremia, AIDS and

PT cancer

PS Claim 43: Fig 3A-3C: 88pp: English.

CC The present sequence represents the human Rab protein C (HRAB) cDNA

CC which was first identified in cDNA invertebrate clone 1272054 from the

CC cDNA library. The cDNA was subcloned into the pUC19 vector and

CC for other human Rab proteins. The cDNA was subcloned into the pUC19

CC vector. The cDNA was subcloned into the pUC19 vector. The cDNA was

CC subcloned into the pUC19 vector. The cDNA was subcloned into the

CC pUC19 vector. The cDNA was subcloned into the pUC19 vector. The

CC cDNA was subcloned into the pUC19 vector. The cDNA was subcloned

CC into the pUC19 vector. The cDNA was subcloned into the pUC19

CC vector. The cDNA was subcloned into the pUC19 vector. The cDNA

CC was subcloned into the pUC19 vector. The cDNA was subcloned into

CC the pUC19 vector. The cDNA was subcloned into the pUC19 vector.

Sequence 818 BP: 178 A: 324 C: 273 G: 142 T:

Query Match 1.0%: Score 19; DB 1; Length 818;

Best Local Similarity 100.0%: Pred. No. 24;

Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

0y 127 ggcgcctggcgtgggggt 145

db 168 GGCAGCCCTGGCCTGGCCT 150

RESULT 12

NC 143225 standard: CDNA: 3931 BP.

AC N80777:

DE 15-OCT-1990 (first entry)

DE cDNA sequence for a murine 4kb clone encoding murine colony stimulating

DE factor-1 (muscF-1)

KW Murine colony stimulating factor-1; 4kb clone; murine L-929.

OS Mouse

FT cds

FT /\*tag= a

FT /product= leader peptide

PN M08803173-A.

PD 15-OCT-1988.

PR 16-APR-1987: US-039657,

PI Kohns KE, Halebeck RF, Kawasaki ES, Ladner MB;

PT P-PDS: P80360.

CC New forms of colony stimulating factor-1 -

CC used for enhancing effectiveness of immune system and for

CC stimulating prodn. of lymphokines

CC Total mRNA was extracted (2.5gpp): English.

CC To construct a cDNA library in lambda gt10

CC phages were probed with a (32) phosphorous single-stranded

CC number of phase plaques which hybridised to probes were purified

CC clones, one with a 2kb insert and the other with a 4kb insert, were





PI Honjo T, Matsuda F;  
 DR WPI: 95-006791/01.  
 P-PSDB: R66316.  
 PT DNA fragment comprising human immunoglobulin Vh genes - for the  
 production of human immunoglobulin in mammalian hosts  
 CC claim 33: Page 61-62; 078939-79002) encoding human immunoglobulin variable  
 CC heavy chain genes (078939-79002) selected from a series of cosmid  
 CC constructs: Y202, Y103, Y21, Y61Y24, Y31. The genes are subdivided into 5  
 CC amplification using primers 078917-36. The fragments cover a region of 800 kb. The DNA  
 CC fragments were isolated from high molecular weight DNA from human  
 CC placenta. The DNA was partially digested with TagI restriction enzyme.  
 CC The fragments were separated by gel electrophoresis and 35-45 kb fractions  
 CC were collected. The fragments were ligated with ClaI-digested cosmid  
 CC into E. coli 4904. The fragments were in vitro packed and infected  
 CC with phage T4. The fragments were packaged into phage T4. The phage  
 CC useful in producing human immunoglobulin in mammalian hosts. them are  
 SO Sequence 600 BP: 154 A: 163 C: 167 G: 116 T:

Query Match  
 Similarity 1.08; Score 18; DB 1; Length 600;  
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 776 caggtgcagtcacatggtg 793  
 DB 81 CAGGTGCATGTCATCATG 64

Search completed: November 20, 1999, 21:43:54  
 Job time: 550 sec